

AP[®] Chemistry
List of Recommended Lab Experiences by the College Board[®]

1. Determination of the formula of a compound
2. Determination of percentage of water in a hydrate
3. Determination of molar mass by vapor density
4. Determination of molar mass by freezing-point depression
5. Determination of molar volume of a gas
6. Standardization of a solution using a primary standard
7. Determination of concentration by acid-base titration, including a weak acid or a weak base
8. Determination of concentration by oxidation-reduction titration
9. Determination of mass and mole relationships in a chemical reaction
10. Determination of the equilibrium constant for a chemical reaction
11. Determination of appropriate indicators for various acid-base titrations; pH determination
12. Determination of the rate of reaction and its order
13. Determination of enthalpy change associated with a reaction
14. Separation and qualitative analysis of cations and anions
15. Synthesis of a coordination compound and its chemical analysis
16. Analytical gravimetric determination
17. Colorimetric or spectrophotometric analysis
18. Separation by chromatography
19. Preparation and properties of buffer solutions
20. Determination of electrochemical series
21. Measurements using electrochemical cells and electroplating
22. Synthesis, purification, and analysis of an organic compound